

IN THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application:

Claims 1-11. Canceled

12. (currently amended) A solar collector for converting light incident thereon into electrical energy, ~~the solar collector comprising: an array of a plurality of substrates~~ a first substrate, a second substrate and a third substrate, each substrate having a photovoltaic cell (PVC) formed on a first-surface thereof, ~~the array including at least a first substrate, a second substrate and a third substrate; and wherein the first-surfaces of the first, second and third substrates are being oriented at angles relative to each other and to a direction of propagation of light incident on the solar collector; such that light incident on the solar collector and reflected from the first substrate is can be reflected onto the first-surfaces~~ surface of at least one of the second and third substrates, whereby an so as to enhance the efficiency of the solar collector is increased.

13. (currently amended) A solar collector according to claim 12, wherein each of the first, second and third substrates ~~comprise~~ has an edge proximal to an edge of at least one other substrate.

14. (currently amended) A solar collector according to claim 13, wherein the ~~first~~ surfaces of the ~~plurality of~~ first, second and third substrates are shaped and oriented relative to one another such that the ~~first-surfaces of the first, second and third substrates form~~ at least part of a concave inner surface of a polyhedron.

15. (currently amended) A solar collector according to claim 14, wherein the ~~first~~ surfaces of the first, second and third substrates form at least part of first, second and third inner surfaces of an inverted three sided pyramid.

16. (currently amended) A solar collector according to claim 15, wherein each of the first, second and third inner substrates ~~are shaped to form first, second and third~~ has the shape of an isosceles triangle ~~triangle~~.

17. (currently amended) A solar collector according to claim 14, ~~wherein the array of the plurality of substrates further comprises~~ comprising a fourth substrate having a

PVC photovoltaic cell formed on the ~~first~~ surface thereof, ~~and wherein the first surfaces of the~~ first, second, third and fourth substrates ~~are being~~ oriented at angles relative to each other and to a light ray incident on the ~~first~~ surface of the first substrate such that light reflected from the first substrate is reflected onto the ~~first~~ surface of the fourth substrate.

18. (currently amended) A solar collector according to claim 17, wherein the ~~first~~ surfaces of the second, third and fourth substrates are ~~also~~ oriented to receive light thereon, ~~and~~ the second, third and fourth substrates ~~are being~~ oriented such that light reflected from the second substrate is reflected onto ~~at least one of the first surfaces~~ the surface of at least one of the first, third and fourth substrates, light reflected from the third substrate is reflected onto ~~at least one of the first surfaces of~~ at least one of the first, second and fourth substrates, and light reflected from the fourth substrate is reflected onto ~~at least one of the first surfaces of~~ at least one of the first, second and third substrates.

19. (currently amended) A solar collector according to claim 17, wherein each of the first, second, third and fourth substrates ~~comprise~~ has an edge proximal to an edge of at least one other substrate.

20. (currently amended) A solar collector according to claim 17, wherein the ~~first~~ surfaces of the first, second, third and fourth substrates form at least part of first, second, third and fourth inner surfaces of an inverted four sided pyramid.

21. (currently amended) A solar collector according to claim 20, wherein each of the first, second, third and fourth inner substrates ~~are shaped to form first, second, third and fourth~~ has the shape of an isosceles triangles.

22. (currently amended) A solar collector according to claim 14, ~~wherein the array of the plurality of substrates further comprises~~ comprising fourth, fifth and sixth substrates having a PVC photovoltaic cell formed on a ~~first~~ surface thereof, ~~and wherein the first surfaces of the first, second, third, fourth and fifth substrates are being oriented at angles relative to each other~~ substrates to form at least part of inner side surfaces of an inverted polyhedron having a pentagonal cross-section, ~~and wherein the sixth substrate forms~~ forming an inner bottom surface ~~thereof of the inverted polyhedron.~~

23. (currently amended) A solar collector according to claim 12, wherein each of the plurality of substrates ~~comprises~~has a single monolithic PVCphotovoltaic cell formed on the first surface thereof.

24. (currently amended) A solar collector according to claim 12, wherein the ~~PVCsphotovoltaic cells~~ formed on the ~~first~~-surfaces of the plurality of substrates ~~comprise~~each have at least two different types of PVCsphotovoltaic cells selected from the group consisting of: Silicon based PVCsphotovoltaic cells, Gallium-Arsenide (GaAs)-based PVCsphotovoltaic cells, Aluminum-Gallium-Arsenide (AlGaAs)-based PVCsphotovoltaic cells, Germanium (Ge)-based PVCsphotovoltaic cells and Gallium Indium-Phosphide (GaInP)-based PVCsphotovoltaic cells.

25. (currently amended) A solar collector according to claim 12, wherein the PVCsphotovoltaic cells formed on the ~~first~~-surfaces of the plurality of substrates each include at least one PVCcomprisingphotovoltaic cell having a multiple-junction PVCphotovoltaic cell.

Claims 26-27. (cancelled)

28. (new) A solar collector comprising a base and a plurality of at least three photovoltaic cells extending upwardly from the base and disposed about and facing a centerline extending upwardly from the base, each of the photovoltaic cells extending away from the centerline as it extends upwardly from the base.

29. (new) A solar collector according to Claim 28, wherein each of the plurality of photovoltaic cells is triangular in shape.

30. (new) A solar collector according to Claim 29, wherein the plurality of photovoltaic cells intersect the centerline at a point.

31. (new) A solar collector according to Claim 28, wherein each of the plurality of photovoltaic cells intersects the centerline.

32. (new) A solar collector according to Claim 28, wherein each of the plurality of photovoltaic cells extends in a plane, the plane of each of the plurality of photovoltaic cells intersecting the centerline.

33. (new) A solar collector according to Claim 28, wherein the plurality of photovoltaic cells consists of three photovoltaic cells.

34. (new) A solar collector according to Claim 28, wherein the plurality of photovoltaic cells consists of four photovoltaic cells.

35. (new) A solar collector according to Claim 28, wherein the plurality of photovoltaic cells consists of five photovoltaic cells.

36. (new) A solar collector according to Claim 28, wherein the plurality of photovoltaic cells extend around the centerline.

37. (new) A solar collector according to Claim 36, wherein each of the plurality of photovoltaic cells adjoins adjacent photovoltaic cells.

38. (new) A solar collector according to Claim 28, wherein the plurality of photovoltaic cells form a cavity.

39. (new) A solar collector according to Claim 38, further comprising a concentrator disposed over the cavity for concentrating light onto the plurality of photovoltaic cells.

40. (new) A solar collector according to Claim 28, wherein each of the plurality of photovoltaic cells is a single monolithic photovoltaic cell.

41. (new) A solar collector according to Claim 28, wherein the plurality of photovoltaic cells are at least two different types of photovoltaic cells selected from the group consisting of silicon based photovoltaic cells, gallium-arsenide based photovoltaic cells, aluminum-gallium-arsenide based photovoltaic cells, germanium based photovoltaic cells and gallium indium-phosphide based photovoltaic cells.

42. (new) A solar collector according to Claim 28, wherein at least one of the plurality of photovoltaic cells is a multiple-junction photovoltaic cell.

43. (new) A solar collector according to Claim 28, wherein at least one of the plurality of photovoltaic cells is a triple-junction photovoltaic cell.